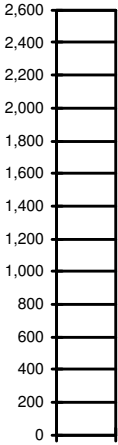
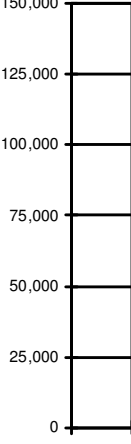
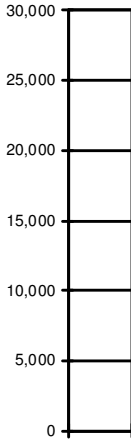


2011 South Central Texas Regional Water Plan Water Management Strategy Summary Sheet

<p>Unit Cost (\$/acft/yr)</p>  <p>Quantity (acft/yr)</p>  <p>Impact (ac)</p> 	<p>Name: Facilities Expansions</p> <p>Description: Facilities Expansions is an activity to identify known or projected system improvements to continue to provide a safe and reliable water supply to the utility's customers. These improvements commonly add pipelines, pump stations and/or storage, interconnection with nearby utilities, and water treatment plants. The improvements were identified by the water utilities and not by a review of each facilities' infrastructure by Region L. Ten utilities in six counties have identified needed improvements.</p> <p>Decade Needed: 2010 – 2060</p> <hr/> <p style="text-align: center;">Cost, Quantity of Water, and Land Impacted</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Unit Cost of Water:</td> <td style="width: 33%;">N/A</td> <td style="width: 34%;">Treated Water Delivered</td> </tr> <tr> <td>Quantity of Water:</td> <td>N/A acft/yr</td> <td>Reliability = Firm</td> </tr> <tr> <td>Land Impacted:</td> <td>N/A acres</td> <td></td> </tr> </table> <hr/> <p style="text-align: center;">Additional Considerations per Regional Water Planning Guidelines</p> <p>Environmental Factors: The water utility improvements are to be constructed in developed areas of the water utilities. No significant impacts on wildlife and cultural features are expected.</p> <p>Impacts on Water Resources: None.</p> <p>Impacts on Agricultural & Natural Resources: None.</p> <p>Other Relevant Factors per SCTRWPG: None.</p> <p>Comparison of Strategies to Meet Needs: None.</p> <p>Interbasin Transfer: None.</p> <p>Issues: None.</p> <p>Third-Party Impacts of Voluntary Transfers: None anticipated.</p> <p>Regional Efficiency: None.</p> <p>Water Quality Considerations: None.</p>	Unit Cost of Water:	N/A	Treated Water Delivered	Quantity of Water:	N/A acft/yr	Reliability = Firm	Land Impacted:	N/A acres	
Unit Cost of Water:	N/A	Treated Water Delivered								
Quantity of Water:	N/A acft/yr	Reliability = Firm								
Land Impacted:	N/A acres									

4C.6 Facilities Expansions

4C.6.1 Description of the Water Management Strategy

Several Water User Groups (WUGs) are interested in projects to expand major components of their existing infrastructure (facilities) so they can continue to provide a safe and reliable water supply to their customers during the planning period. These facilities expansions are considered to be independent of any potential water management strategies to acquire a new water supply, and instead are intended to address expected future improvements to the water system, such as the installation of new water transmission facilities or additional water treatment.

The identification of the facilities expansions is based on responses from WUGs or representatives of the South Central Texas Regional Water Planning Group only. This water management strategy does not include an environmental assessment, as any environmental issues would likely be localized. Furthermore, cost estimates for each of these facilities expansions are not included, as they will be based on preliminary engineering designs by the entities' engineer.

4C.6.2 Available Yield

The Facilities Expansions water management strategy (WMS) does not provide additional new firm supply. It is intended to document the expansion of existing facilities for WUGs that notified the South Central Texas Regional Planning Group about their plans during the request for information on their future water supply plans. The Facilities Expansions WMS allows these WUGs to better utilize their existing supplies and facilitate the implementation of new supplies from other WMSs.

4C.6.3 Environmental Issues

Facilities expansions typically include adding or expanding water treatment plants, pipelines, pump station, and ground or elevated storage, many of which are on land and easements already owned by the WUG. In the permitting process some of these facilities expansions may require habitat studies and surveys for protected species and a cultural review. If a significant negative impact appears likely, some modifications to the project may be required. Mitigation may include compensation for net losses of wetlands where impacts are unavoidable.

4C.6.4 Engineering and Costing

Preliminary engineering and costing have been completed for all facilities expansions not already included in other strategies. Cost estimates were developed using regional planning procedures, and all connections are assumed to be made by 12 in. dia. transmission pipelines. The annual costs include debt service for a 20-year loan at 6 percent interest and operation and maintenance costs. A description of the facilities expansions requested by each WUG is presented by county below.

4C.6.4.1 Atascosa County

4C.6.4.1.1 City of Charlotte

The City of Charlotte is interested in constructing new water transmission facilities that would establish interconnects between their water utility and Benton City WSC, City of Poteet, City of Jourdanton, and City of Pleasanton. These interconnects would greatly increase the reliability of potable water for the City of Charlotte and the other small utilities. The cost estimate for facilities expansion for the City of Charlotte includes four 12-inch interconnection transmission pipelines and is summarized in Table 4C.6-1.

4C.6.4.1.2 City of Pleasanton

In addition to installing new wells that were identified in the Local Groundwater WMS, the City of Pleasanton is interested in installing two new elevated water tanks - one in the northwest sector of the service area and another one in the northeast sector of the service area. The expansion is planned to address increased demands for potable water in these areas and to improve water system pressure. No cost estimates were prepared for the City of Pleasanton facilities expansion projects as they are distribution system improvements and not part of the regional planning process.

4C.6.4.1.3 Atascosa Rural WSC

The Atascosa Rural WSC is interested in water transmission facilities for interconnects with Benton City WSC, Bexar Metropolitan Water District (BMWD), City of Poteet, City of Jourdanton, and City of Pleasanton. This interconnect would greatly increase the reliability of the utility and facilitate the implementation of potential WMSs, including Medina Lake Firm-up

and Aquifer Storage and Recovery projects. The cost estimate for facilities expansion for the Atascosa Rural WSC includes four 12-inch interconnection transmission pipelines and is summarized in Table 4C.6-1.

4C.6.4.2 Bexar County

4C.6.2.2.1 City of Helotes

The City of Helotes is interested in integrating their water system with SAWS by installing new water main pipelines, pump stations, and/or storage. The area of greatest interest is along State Highway 16 within the commercial corridor of the city. The cost estimate for facilities expansion for the City of Helotes includes a 12-inch interconnection transmission pipeline and is summarized in Table 4C.6-1.

4C.6.4.3 Caldwell County

4C.6.4.3.1 Tri-Community WSC

The Tri-Community WSC is interested in constructing an emergency and/or long-term interconnect with the Maxwell WSC and the City of Luling. The interconnects are to be designed to provide, at least, an interim supply of treated water during emergencies. These interconnects would require new pipelines, pump stations, and/or storage facilities. The cost estimate for facilities expansion for the Tri-Community WSC (Caldwell County Rural) includes two 12-inch interconnection transmission pipelines and is summarized in Table 4C.6-1.

4C.6.4.4 Gonzales County

4C.6.4.4.1 Gonzales County WSC

The Gonzales County WSC is interested in a facilities expansion that includes: (1) an interconnection with the Schertz-Seguin Local Government Corporation (SSLGC) and (2) an interconnection with the Texas Water Alliance. These interconnects would require new pipelines, pump stations, and/or storage facilities. Costs associated with Gonzales County WSC facilities expansion are included in the TWA Regional Carrizo water management strategy.

4C.6.4.5 Guadalupe County**4C.6.4.5.1 City of Seguin**

The City of Seguin is interested in a facilities expansion that includes an interconnection with Texas Water Alliance. The interconnection would require new pipelines, pump stations, and/or storage facilities. In addition, the City foresees the need for additional transmission facilities (pipelines, pump stations, and storage) for their SSLGC project. Costs associated with the City of Seguin facilities expansion are included in the TWA Regional Carrizo water management strategy.

4C.6.4.5.2 Springs Hill WSC

The Springs Hill WSC is interested in expanding their Lake Placid Water Treatment Plant from the current 1 MGD capacity to 2 MGD so that they can fully utilize their surface water rights. In addition, other improvements may include new pipelines, pump stations, and/or storage. The cost estimate is summarized in Table 4C.6-1.

4C.6.4.6 Medina County**4C.6.4.6.1 City of Castroville**

The City of Castroville is interested in an expansion that includes an interconnection with the South Texas Regional Water Alliance. This interconnection would require new pipelines, pump stations, and/or storage facilities. The cost estimate for facilities expansion for the City of Castroville includes a 12-inch interconnection transmission pipeline and is summarized in Table 4C.6-1.

4C.6.4.6.2 Yancey WSC

The Yancey WSC is interested in adding an element to their Local Groundwater WMS that includes an expansion of water transmission facilities such as new pipelines, pump stations, and/or storage facilities. No cost estimates were prepared for the City of Pleasanton facilities expansion projects as they are distribution system improvements and not part of the regional planning process.

**Table 4C.6-1.
Facilities Expansion Preliminary Costs**

WUG	Description	Total Capacity of Facilities Expansion (acft/yr)	Project Cost	Annual Cost
City of Charlotte	(4) 12-in. dia. transmission pipeline connection	11,372	\$38,356,000	\$3,586,000
Atascosa Rural WSC	(4) 12-in. dia. transmission pipeline connection	11,372	\$72,433,000	\$6,772,000
City of Helotes	12-in. dia. transmission pipeline connection	2,843	\$2,863,000	\$269,000
Tri-Community WSC	(2) 12-in. dia. transmission pipeline connection	5,686	\$17,584,000	\$774,000
City of Castroville	12-in. dia. transmission pipeline connection	2,843	\$11,046,000	\$1,033,000
Springs Hill WSC	Expansion of Lake Placid WTP capacity from 1 MGD to 2MGD	1,120	\$2,277,000	\$722,000

4C.6.5 Implementation Issues

The facilities expansions are not expected to have significant implementation issues.

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